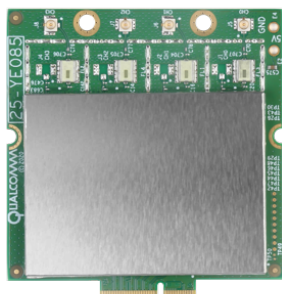# MX6974 F5

802.11ax 嵌入式无线网卡

产品概述

  MX6974 F5 是一款采用 M.2 E-key 接口，支持 PCI Express 3.0 协议的嵌入式无线网卡。采用 Qualcomm® 802.11ax Wi-Fi 技术，支持 5180-5850GHz 频段，具备 AP 及 STA 功能，同时具备 4x4 MIMO 和 4 个空间流，适用于 5GHz IEEE802.11a/n/ac/ax 应用，相比上一代无线网卡的传输效率更高，并具备动态频率选择 (DFS)功能。
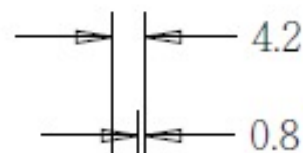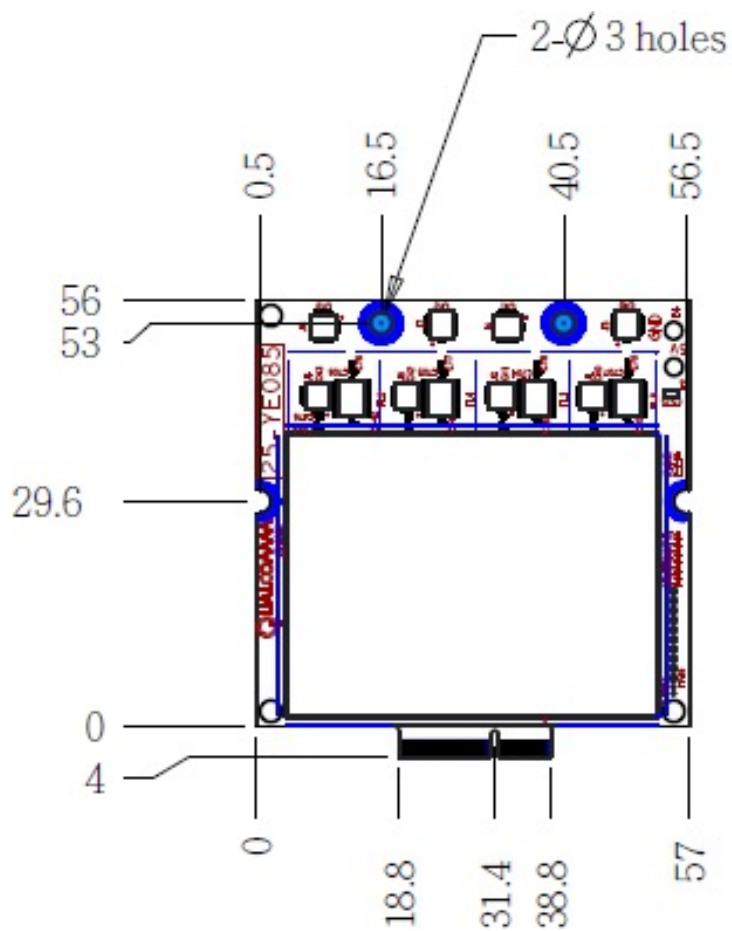
产品规格

产品类型	无线网卡
芯片	QCN9074
IEEE 标准	IEEE 802.11ax
接口	PCI Express 3.0，M.2 E-key
工作电压	3.3V/5V
频率范围	5G：5.180GHz~5.850GHz
调制技术	802.11n：OFDM（BPSK，QPSK，16-QAM，64-QAM，256-QAM） 802.11ac：OFDM（BPSK，QPSK，16-QAM，64-QAM，256-QAM） 802.11ax：OFDMA（BPSK，QPSK，DBPSK，DQPSK，16-QAM，64-QAM，256-QAM，1024-QAM，4096-QAM）
输出功率（单通道）	802.11ax：Max. 21dBm
功耗	≦15W
接收灵敏度	11ax： HE20 MCS0 <-89dBm / MCS11 <-64dBm HE40 MCS0 <-89dBm / MCS11 <-60dBm HE80 MCS0 <-86dBm / MCS11 <-58dBm
天线接口	4 x U. FL
工作环境	温度：-20°C to 70°C 湿度：95%（无冷凝）
存储环境	温度：-40°C to 90°C 湿度：90%（无冷凝）
认证	RoHS/REACH
重量	20 克
芯片尺寸（W*H*D)	60 x 57 x 4.2 mm （偏差±0.1mm）

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射频参数

	速率	发射功率（单通道）	公差	接收灵敏度	公差
802.11a	6Mbps	21dBm	±2dB	-91dBm	±2dB
	9Mbps	21dBm	±2dB	---	±2dB
	12Mbps	21dBm	±2dB	---	±2dB
	18Mbps	21dBm	±2dB	---	±2dB
	24Mbps	20dBm	±2dB	---	±2dB
	36Mbps	20dBm	±2dB	---	±2dB
	48Mbps	17dBm	±2dB	---	±2dB
	54Mbps	17dBm	±2dB	-74dBm	±2dB
802.11n/ac VHT20	MCS0	21dBm	±2dB	-91dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	-74dBm	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	-67dBm	±2dB
802.11n/ac VHT40	MCS0	21dBm	±2dB	-89dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	-71dBm	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	-65dBm	±2dB
802.11ac VHT80	MCS0	21dBm	±2dB	-86dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	---	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	-61dBm	±2dB
802.11ac VHT160	MCS0	19dBm	±2dB	---	±2dB
	MCS1	19dBm	±2dB	---	±2dB
	MCS2	19dBm	±2dB	---	±2dB
	MCS3	19dBm	±2dB	---	±2dB
	MCS4	18dBm	±2dB	---	±2dB
	MCS5	18dBm	±2dB	---	±2dB
	MCS6	15dBm	±2dB	---	±2dB
	MCS7	15dBm	±2dB	---	±2dB
	MCS8	15dBm	±2dB	---	±2dB
	MCS9	15dBm	±2dB	---	±2dB

	速率	发射功率（单通道）	公差	接收灵敏度	公差
802.11ax HE20	MCS0	21dBm	±2dB	-89dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	---	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	---	±2dB
	MCS10	16dBm	±2dB	---	±2dB
	MCS11	16dBm	±2dB	-64dBm	±2dB
	MCS12	10dBm	±2dB	---	±2dB
	MCS13	10dBm	±2dB	---	±2dB
802.11ax HE40	MCS0	21dBm	±2dB	-89dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	---	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	---	±2dB
	MCS10	16dBm	±2dB	---	±2dB
	MCS11	16dBm	±2dB	-60dBm	±2dB
	MCS12	10dBm	±2dB	---	±2dB
	MCS13	10dBm	±2dB	---	±2dB
802.11ax HE80	MCS0	21dBm	±2dB	-86dBm	±2dB
	MCS1	21dBm	±2dB	---	±2dB
	MCS2	21dBm	±2dB	---	±2dB
	MCS3	21dBm	±2dB	---	±2dB
	MCS4	20dBm	±2dB	---	±2dB
	MCS5	20dBm	±2dB	---	±2dB
	MCS6	17dBm	±2dB	---	±2dB
	MCS7	17dBm	±2dB	---	±2dB
	MCS8	17dBm	±2dB	---	±2dB
	MCS9	17dBm	±2dB	---	±2dB
	MCS10	16dBm	±2dB	---	±2dB
	MCS11	16dBm	±2dB	-58dBm	±2dB
	MCS12	10dBm	±2dB	---	±2dB
	MCS13	10dBm	±2dB	---	±2dB
802.11ax HE160	MCS0	19dBm	±2dB	---	±2dB
	MCS1	19dBm	±2dB	---	±2dB
	MCS2	19dBm	±2dB	---	±2dB
	MCS3	19dBm	±2dB	---	±2dB
	MCS4	18dBm	±2dB	---	±2dB
	MCS5	18dBm	±2dB	---	±2dB
	MCS6	15dBm	±2dB	---	±2dB
	MCS7	15dBm	±2dB	---	±2dB
	MCS8	15dBm	±2dB	---	±2dB
	MCS9	15dBm	±2dB	---	±2dB
	MCS10	14dBm	±2dB	---	±2dB
	MCS11	14dBm	±2dB	---	±2dB
	MCS12	7dBm	±2dB	---	±2dB
	MCS13	7dBm	±2dB	---	±2dB

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